

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for generating geographic coordinate information comprising:

receiving ~~at least one term~~ a plurality of address terms ~~that specifies an address;~~

identifying, in a table that includes a plurality of rows that each include a plurality of address fields, an intersection of a plurality of sets of rows defined based on the plurality of address terms, the plurality of address terms corresponding to the address fields ~~accessing a table defining coordinate information for ranges of addresses to find an intersection of sets of rows in the table that correspond to the at least one term;~~ and

reading geographic coordinate information from the table at the intersection of the plurality of sets of rows in the table.

2. (canceled)

3. (original) The method of claim 1, wherein reading the geographic coordinate information includes:

reading starting geographic coordinate values from the table;

reading ending geographic coordinate values from the table;

reading a starting street number from the table;

reading an ending street number from the table; and
calculating the geographic coordinate information based on an interpolation of an actual street number relative to the starting and ending street numbers and the starting and ending geographic coordinate values.

4. (currently amended) The method of claim 1, wherein columns of the table correspond to the plurality of address ~~include fields that correspond to the at least one term that specifies the address.~~

5. (currently amended) The method of claim 4, wherein the plurality of address fields in the table include at least a state field, a city field, a zip code field, and a street field.

6. (original) The method of claim 1, wherein the coordinate information is defined as latitude and longitude values.

7. (currently amended) The method of claim ~~[[4]]~~ 1, wherein the intersection of the plurality of sets of rows in the table ~~that correspond to the at least one term~~ is determined by successively locating first sets of rows corresponding to one of the plurality of address terms and then locating a next set of rows as a subset of the first set of rows corresponding to a next one of the plurality of address terms.

8. (currently amended) The method of claim 7, wherein the table is successively sorted by a plurality of table columns, the sorting being performed in a sorting order based on an order of the fields used to locate the sets blocks of rows.

9. (original) The method of claim 8, wherein sections of the sorted columns of the table are stored as a value and an associated beginning and ending row of the value to thereby reduce a stored size of the table.

10. (currently amended) The method of claim 1, wherein the receiving the plurality of address terms that specify an address includes:

extracting an the address from a text document.

11 (original) The method of claim 10, wherein extracting the address from the text document further includes:

identifying possible address terms in the text document based on predetermined rules,

verifying that the identified possible address terms are address terms by comparing the address terms to fields in the table, and

examining a relative position of the verified possible address terms in the document to determine whether the verified possible address terms form a valid address.

12. (currently amended) A device comprising:

means for receiving a plurality of address terms ~~at least one term that specifies an address;~~

means for accessing a table including a plurality of rows that each include a plurality of address fields, the plurality of terms that specify the address corresponding to the address fields and defining a plurality of sets of rows in the table, the means for accessing the table including means for locating defining-
~~coordinate information for ranges of addresses to find an intersection of the~~
plurality of sets of rows in the table ~~that correspond to the at least one term;~~ and

means for reading geographic coordinate information from the table at the intersection of the plurality of sets of rows in the table.

13. (original) The device of claim 12, wherein the means for receiving further comprises:

means for identifying possible address terms from a document based on predetermined rules;

means for verifying that the identified possible address terms are address terms by comparing the address terms to the table; and

means for examining a relative position of the verified possible address terms in the document to determine whether the verified possible address terms form a valid address.

14. (original) A system for geocoding postal addresses comprising:

a table including a plurality of rows that each correspond to a range of one or more addresses, each of the rows including a plurality of fields that define the row; and

a geocoding component configured to generate geographic coordinate information for a received address specified by one or more terms that correspond to the fields by locating at least one row in the table that corresponds to an intersection of a number of sets of rows defined by the terms in the received address.

15. (original) The system of claim 14, wherein the geographic coordinate information is generated by interpolating a street address within a range of street addresses specified in the at least one row.

16. (original) The system of claim 14, wherein the plurality of fields include a state field, a zip code field, and a street field.

17. (original) The system of claim 16, wherein the plurality of fields further include a county field, a city field, a street base name field, and a parity field.

18. (original) The system of claim 17, wherein the plurality of fields further include a starting street number field, an ending street number field, starting geographic coordinate information fields, and ending geographic coordinate information fields.

19. (original) The system of claim 14, wherein columns of the table correspond to the plurality of fields.

20. (original) The system of claim 14, wherein the geographic coordinate information is defined as latitude and longitude values.

21. (original) A method for extracting addresses from a document, the method comprising:

identifying possible address terms based on predetermined rules;

verifying that the identified possible address terms are address terms by comparing the address terms to a table containing known addresses; and

examining a relative position of the verified possible address terms in the document to determine whether the verified possible address terms form a valid address.

22. (original) The method of claim 21, wherein the predetermined rules include a comparison of the possible address terms to a known list of possible terms.

23. (original) The method of claim 21, wherein the predetermined rules include a comparison of capitalization in the possible address terms to capitalization consistent with actual address terms.

24. (original) The method of claim 21, wherein the predetermined rules include a verification that the possible address terms that define street names are preceded by a number.

25. (original) The method of claim 21, further comprising normalizing the possible address terms to a standardized set of address terms.

26. (original) The method of claim 21, further comprising:
omitting prefixes and suffixes when verifying that the identified possible address terms are address terms.

27. (original) A computing device comprising:
a memory configured to store a table containing valid addresses; and
a processor operatively coupled to the memory, the processor executing programming instructions that cause the processor to extract addresses from a document by:
identifying possible address terms in the document based on predetermined rules,
verifying that the identified possible address terms are address terms by comparing the address terms to the table, and
examining a relative position of the verified possible address terms in the document to determine whether the verified possible address terms form a valid address.

28. (canceled)

29. (new) The method of claim 1, wherein the plurality of address terms comprise one or more of a state name, a zip code, a city name, a street name, or a street number.

30. (new) A computing system comprising:
at least one processor; and
a memory coupled to the at least one processor, the memory including a table including a plurality of rows that each include a plurality of address fields and instructions for execution by the at least one processor, the instructions including:

instructions configured to identify a plurality of possible address terms based on predetermined rules;

instructions configured to verify that the identified possible address terms are address terms by comparing the address terms to the table;

instructions configured to examine a relative position of the verified possible address terms in the document to determine whether the verified possible address terms form a valid address;

instructions configured to identify, when the verified possible address terms form a valid address, an intersection of a plurality of sets of rows in the table in which each set of rows in the table is defined based on one or more of the verified possible address terms; and

instructions configured to read geographic coordinate information
from the table at the intersection of the plurality of sets of rows in the table.